

CLAIMS

What is claimed is:

- 1 1. A multimode backlight for a display comprising:
2 at least one first illumination source comprising a first mode;
3 an NVIS filter adjacent to said at least one first illumination source;
4 at least one second illumination source comprising a second
5 mode; and
6 a filter means adjacent to said at least one second illumination source
7 for suppressing an excitation of said at least one second illumination source caused
8 by said at least one first illumination source.
- 1 2. The invention of claim 1 further comprising apertures for limiting an
2 exposure to said NVIS filter from illumination from said at least one second
3 illumination source.
- 1 3. The invention of claim 2 wherein the apertures comprise different
2 sized apertures for a uniform distribution of a light from the at least one first
3 illumination source.
- 1 4. The invention of claim 1 wherein said at least one first illumination
2 source comprises at least one light emitting diode comprising a first color and said at
3 least one second illumination source comprise at least one light emitting diode
4 comprising a second color.
- 1 5. The invention of claim 1 wherein said filter means comprises a filter
2 for attenuating a first predetermined wavelength and for transmitting a second
3 predetermined wavelength.

— 11 —

1 6. The invention of claim 5 wherein said filter means for attenuating a
2 first predetermined wavelength comprises attenuating phosphorescent light emitted
3 by the at least one second illumination source.

1 7. The invention of claims 1 wherein said filter means comprises a hot
2 mirror.

1 8. The invention of claim 1 wherein said filter means comprises a notch
2 filter.

1 9. The invention of claim 1 further comprising at least one third
2 illumination source comprising a third mode.

1 10. The invention of claim 9 wherein said at least one third illumination
2 source further comprises a second NVIS filter adjacent to said at least one third
3 illumination source.

1 11. The invention of claim 9 wherein said at least one third illumination
2 source further comprises a filter means adjacent to said at least one third
3 illumination source for suppressing an excitation of said at least one third
4 illumination source caused by said first and said second illumination source.

1 12. A method of multimode backlighting of a display, the method
2 comprising the steps of:
3 a) filtering a first illumination source comprising a first mode
4 with a NVIS filter; and
5 b) suppressing an excitation of a second illumination source
6 comprising a second mode caused by said first illumination source with a filter.

1 13. The method of claim 12 further comprising the step of limiting an
2 exposure to the NVIS filter from illumination from the second illumination source
3 with limiting apertures.

1 14. The method of claim 12 wherein the step of suppressing comprises
2 attenuating a first predetermined wavelength and for transmitting a second
3 predetermined wavelength.

1 15. The method of claim 14 wherein the step of attenuating a first
2 predetermined wavelength comprises attenuating phosphorescent light emitted by
3 the at least one second illumination source.

1 16. The method of claim 12 further comprising the step of filtering a
2 third illumination source comprising a third mode with a second NVIS filter.

1 17. The method of claim 12 further comprising the step of suppressing an
2 excitation of a third illumination source comprising a third mode caused by said
3 first and said second illumination source.